



Janice K. Brewer
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Patrick J. Cunningham
Acting Director

NOTICE OF THE PRELIMINARY DECISION TO ISSUE A SIGNIFICANT AMENDMENT TO AN INDIVIDUAL AQUIFER PROTECTION PERMIT

Public Notice No. 32-09

**Published on Monday, April 13, 2009
Published in the Mohave Valley Daily News**

Pursuant to Arizona Administrative Code, Title 18, Chapter 9, Article 1, the Director of the Arizona Department of Environmental Quality intends to issue an individual Aquifer Protection Permit to the following applicant(s):

Facility Name: Bullhead City Section 18 Wastewater Treatment Plant (WWTP)

Significant Amendment to Aquifer Protection Permit No. P-102475

Permittee: Pawan Agrawal, City Engineer
City of Bullhead City
1255 Marina Boulevard
Bullhead City, AZ 86442

The proposed facility is located at 1601 Bullhead Parkway in Bullhead City, Mohave County, Arizona, over the Lake Mohave Valley basin in Township 20 N, Range 21 W, Section 18, Gila and Salt River Base Line and Meridian. The City of Bullhead City requested an amendment to their existing permit (P-102475) on March 1, 2007.

The City of Bullhead City is authorized to operate the Section 18 Wastewater Treatment Plant (WWTP) designed to treat two million gallons per day (mgd) for treatment of municipal sewage. The tertiary treatment process includes odor controlled headworks with bar screens, flow equalization basin, anoxic and aeration tanks followed by membrane filtration, chlorination, and de-chlorination. The effluent is disinfected through an existing chlorination unit. From the effluent pump station, the treated effluent is disposed by reuse under a valid reclaimed water permit and excess effluent will be delivered to eight infiltration basins which were constructed on site. The effluent will also be used for various on-site plant operations and fire protection.

All sludge including screenings, grit, and scum will be dewatered onsite before being hauled off-site for disposal in accordance with state and federal regulations. The existing sludge drying beds will be used as a backup to the belt filter press.

Groundwater in the regional aquifer is reportedly present at depths ranging between 350 to 800 feet bgs. Depth to groundwater at an on-site well is approximately 350 feet bgs and the direction of groundwater flow is believed to be towards the west-southwest. The WWTP was designed and constructed according to plans approved by the ADEQ, APP & Reuse Unit on March 6, 2009.

Northern Regional Office
1801 W. Route 66 • Suite 117 • Flagstaff, AZ 86001
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

The WWTP is rated as producing Class A+ reclaimed water standards (A.A.C. R18-11, Article 3) and may be delivered for beneficial use under a valid reclaimed water permit.

This amendment is to increase the design flow to two (2) mgd and to modify the WWTP. The wastewater treatment plant will include a new headworks, membrane bioreactor, and belt filter press. The existing effluent pump station and chlorine contact basin will be used in treatment process. The existing aeration basin will be available for use as-needed to equalize the flow. The existing sludge drying beds will be used during contingency.

The draft permit and related documentation are available for public review, Monday through Friday, 8:30 a.m. to 4:30 p.m., at ADEQ, 1110 W. Washington Street, Records Management Center, Phoenix, Arizona, 85007. In Phoenix, please call (602) 771-4380 or e-mail RecordsCenter@azdeq.gov 24 hours in advance to schedule an appointment to review the file.

Persons may submit comments or request a public hearing on the proposed action, in writing, to Swathi Kasanneni, Arizona Department of Environmental Quality, 1110 W. Washington Street, Phoenix, Arizona 85007, within thirty (30) days from the date of this notice. A public hearing request must include the reason for such request.